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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/926,562 | 02/05/2002 | Hiroshi Ohgoshi | 011547 | 8658 |

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WASHINGTON, DC 20036

EXAMINER

JIMENEZ, MARC QUEMUEL

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

3726

DATE MAILED: 09/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/926,562

Applicant(s)

OHGOSHI ET AL. 

Examiner

Marc Jimenez

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5,7-9,11-19,21-34,40 and 41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-3,5,7-9,11-19,21-34,40 and 41 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3 and 5, drawn to a resin roller.

Group II, claim(s) 7, drawn to a method of producing a resin roller.

Group III, claim(s) 8-9, drawn to a resin roller.

Group IV, claim(s) 11-16, drawn to a method of producing a resin roller.

Group V, claim(s) 17-19, drawn to a roller producing apparatus.

Group VI, claim(s) 21-25, drawn to a method for producing a roller for an electrophotographic apparatus.

Group VII, claim(s) 26-29, drawn to an apparatus for producing a roller for an electrophotographic apparatus.

Group VIII, claim(s) 30-34, drawn to an apparatus for injection-forming a roller.

Group IX, claim(s) 40-41, drawn to a resin roller forming metal mold which holds a cylindrical metal mold.

2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups I and II lack the special technical feature of "elastically contacting the sealing members to the sides of the core supporting members" of Group II. Group II lacks the special technical feature of "attaching E-rings or O-rings" of Group I.

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3. The inventions listed as Groups I and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I lacks the special technical feature of “chamfered or rounded by removing resin via thermal decomposition” of Group III. Group III lacks the special technical feature of “attaching E-rings or O-rings” of Group I.
4. The inventions listed as Groups I and IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I lacks the special technical feature of “thermal shrinkage of the resin layer causes the resin layer to form edge parts with swollen appearance” of Group IV. Group IV lacks the special technical feature of “attaching E-rings or O-rings” of Group I.
5. The inventions listed as Groups I and V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I lacks the special technical feature of “a pressure adjusting mechanism” of Group V. Group V lacks the special technical feature of “attaching E-rings or O-rings” of Group I.
6. The inventions listed as Groups I and VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I lacks the special technical feature of “having a catalyst and measuring set amounts thereof” of Group VI. Group VI lacks the special technical feature of “attaching E-rings or O-rings” of Group I.
7. The inventions listed as Groups I and VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I lacks the special technical feature of “containers” of Group VII. Group II lacks the special technical feature of “attaching E-rings or O-rings” of Group I.
8. The inventions listed as Groups I and VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I lacks the special technical feature of “having a 2nd obliquity” of Group VIII. Group VIII lacks the special technical feature of “attaching E-rings or O-rings” of Group I.
9. The inventions listed as Groups I and IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I lacks the special technical feature of “a ring shaped concave groove formed at an opening edge of a core holding hole provided in the core supporting member” of Group IX. Group XI lacks the special technical feature of “attaching E-rings or O-rings” of Group I.

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10. The inventions listed as Groups II and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II lacks the special technical feature of “chamfered or rounded by removing resin via thermal decomposition” of Group III. Group III lacks the special technical feature of “elastically contacting the sealing members” of Group II.

11. The inventions listed as Groups II and IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II lacks the special technical feature of “thermal shrinkage of the resin layer causes the resin layer to form edge parts with swollen appearance” of Group IV. Group IV lacks the special technical feature of “elastically contacting the sealing members” of Group II.

12. The inventions listed as Groups II and V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II lacks the special technical feature of “a pressure adjusting mechanism” of Group V. Group V lacks the special technical feature of “elastically contacting the sealing members” of Group II.

13. The inventions listed as Groups II and VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II lacks the special technical feature of “having a catalyst and measuring set amounts thereof” of Group VI. Group VI lacks the special technical feature of “elastically contacting the sealing members” of Group II.

14. The inventions listed as Groups II and VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II lacks the special technical feature of “containers” of Group VII. Group VII lacks the special technical feature of “elastically contacting the sealing members” of Group II.

15. The inventions listed as Groups II and VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II lacks the special technical feature of “having a 2nd obliquity” of Group VIII. Group VIII lacks the special technical feature of “elastically contacting the sealing members” of Group II.

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16. The inventions listed as Groups II and IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group II lacks the special technical feature of “a ring shaped concave groove formed at an opening edge of a core holding hole provided in the core supporting member” of Group IX. Group IX lacks the special technical feature of “elastically contacting the sealing members” of Group II.

17. The inventions listed as Groups III and IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group III lacks the special technical feature of “thermal shrinkage of the resin layer causes the resin layer to form edge parts with swollen appearance” of Group IV. Group IV lacks the special technical feature of “chamfered or rounded by removing resin via thermal decomposition” of Group III.

18. The inventions listed as Groups III and V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group III lacks the special technical feature of “a pressure adjusting mechanism” of Group V. Group V lacks the special technical feature of “chamfered or rounded by removing resin via thermal decomposition” of Group III.

19. The inventions listed as Groups III and VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group III lacks the special technical feature of “having a catalyst and measuring set amounts thereof” of Group VI. Group VI lacks the special technical feature of “chamfered or rounded by removing resin via thermal decomposition” of Group III.

20. The inventions listed as Groups III and VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group III lacks the special technical feature of “containers” of Group VII. Group VII lacks the special technical feature of “chamfered or rounded by removing resin via thermal decomposition” of Group III.

21. The inventions listed as Groups III and VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group III lacks the special technical feature of “having a 2nd obliquity” of Group VIII. Group VIII lacks the special technical feature of “chamfered or rounded by removing resin via thermal decomposition” of Group III.

22. The inventions listed as Groups III and IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or

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corresponding special technical features for the following reasons: Group III lacks the special technical feature of “a ring shaped concave groove formed at an opening edge of a core holding hole provided in the core supporting member” of Group IX. Group IX lacks the special technical feature of “chamfered or rounded by removing resin via thermal decomposition” of Group III.

23. The inventions listed as Groups IV and V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group IV lacks the special technical feature of “a pressure adjusting mechanism” of Group V. Group V lacks the special technical feature of “thermal shrinkage of the resin layer causes the resin layer to form edge parts with swollen appearance” of Group IV.

24. The inventions listed as Groups IV and VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group IV lacks the special technical feature of “having a catalyst and measuring set amounts thereof” of Group VI. Group VI lacks the special technical feature of “thermal shrinkage of the resin layer causes the resin layer to form edge parts with swollen appearance” of Group IV.

25. The inventions listed as Groups IV and VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group IV lacks the special technical feature of “containers” of Group VII. Group VII lacks the special technical feature of “thermal shrinkage of the resin layer causes the resin layer to form edge parts with swollen appearance” of Group IV.

26. The inventions listed as Groups IV and VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group IV lacks the special technical feature of “having a 2nd obliquity” of Group VIII. Group VIII lacks the special technical feature of “thermal shrinkage of the resin layer causes the resin layer to form edge parts with swollen appearance” of Group IV.

27. The inventions listed as Groups IV and IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group IV lacks the special technical feature of “a ring shaped concave groove formed at an opening edge of a core holding hole provided in the core supporting member” of Group IX. Group IX lacks the special technical feature of “thermal shrinkage of the resin layer causes the resin layer to form edge parts with swollen appearance” of Group IV.

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28. The inventions listed as Groups V and VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group V lacks the special technical feature of “having a catalyst and measuring set amounts thereof” of Group VI. Group VI lacks the special technical feature of “a pressure adjusting mechanism” of Group V.

29. The inventions listed as Groups V and VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group V lacks the special technical feature of “containers” of Group VII. Group VII lacks the special technical feature of “a pressure adjusting mechanism” of Group V.

30. The inventions listed as Groups V and VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group V lacks the special technical feature of “having a 2nd obliquity” of Group VIII. Group VIII lacks the special technical feature of “a pressure adjusting mechanism” of Group V.

31. The inventions listed as Groups V and IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group V lacks the special technical feature of “a ring shaped concave groove formed at an opening edge of a core holding hole provided in the core supporting member” of Group IX. Group IX lacks the special technical feature of “a pressure adjusting mechanism” of Group V.

32. The inventions listed as Groups VI and VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group VI lacks the special technical feature of “containers” of Group VII. Group VII lacks the special technical feature of “having a catalyst and measuring set amounts thereof” of Group VI.

33. The inventions listed as Groups VI and VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group VI lacks the special technical feature of “having a 2nd obliquity” of Group VIII. Group VIII lacks the special technical feature of “having a catalyst and measuring set amounts thereof” of Group VI.

34. The inventions listed as Groups VI and IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group VI lacks the special technical feature of “a ring shaped concave groove formed at an opening edge of a core holding hole provided in the core supporting member” of Group IX. Group IX lacks the special technical feature of “having a catalyst and measuring set amounts thereof” of Group VI.

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35. The inventions listed as Groups VII and VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group VII lacks the special technical feature of “having a 2nd obliquity” of Group VIII. Group VIII lacks the special technical feature of “containers” of Group VII.

36. The inventions listed as Groups VII and IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group VII lacks the special technical feature of “a ring shaped concave groove formed at an opening edge of a core holding hole provided in the core supporting member” of Group IX. Group VIII lacks the special technical feature of “containers” of Group VII.

37. The inventions listed as Groups VIII and IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group VIII lacks the special technical feature of “a ring shaped concave groove formed at an opening edge of a core holding hole provided in the core supporting member” of Group IX. Group IX lacks the special technical feature of “having a 2nd obliquity” of Group VIII.

38. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

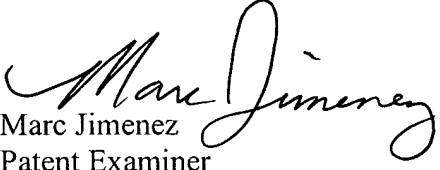
39. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

40. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc Jimenez whose telephone number is (703) 306-5965. The examiner can normally be reached on Monday-Friday between 5:30 a.m.-2:00 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Marc Jimenez
Patent Examiner
AU 3726

MJ

September 7, 2004